IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Kindly cancel claims 1-12, 20-22, 29-34, and 37-42. Please amend claims 13 and 14 and add new claims 43-48 as follows:

STATUS OF THE CLAIMS:

1.-12 Cancelled

- 13. (Currently amended) An isolated polypeptide selected from the group consisting of:
- a) a fragment of a polypeptide comprising the amino acid sequence of SEQ ID NO:2, SEQ ID NO:5, SEQ ID NO:8, SEQ ID NO:11, or SEQ ID NO:15, wherein the fragment comprises at least 16 contiguous amino acids of SEQ ID NO:2, SEQ ID NO:5, SEQ ID NO:8, SEQ ID NO:11, or SEQ ID NO:15;
- b) a naturally occurring allelic a variant of a polypeptide comprising the amino acid sequence of SEQ ID NO:2, SEQ ID NO:5, SEQ ID NO:8, SEQ ID NO:11, or SEQ ID NO:15, wherein the polypeptide is encoded by a nucleic acid molecule which hybridizes to a complement of a nucleic acid molecule consisting of SEQ ID NO:1 or 3, SEQ ID NO:4 or 6, SEQ ID NO:7 or 9, SEQ ID NO:10 or 12, or SEQ ID NO:14 or 16 under stringent conditions;
- c) a polypeptide which is encoded by a nucleic acid molecule comprising a nucleotide sequence which is at least 9060% identical to a nucleic acid comprising the nucleotide sequence of SEQ ID NO:1, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:12, SEQ ID NO:14, or SEQ ID NO:16;
- d) a polypeptide comprising an amino acid sequence which is at least <u>9060</u>% identical to the amino acid sequence of SEQ ID NO:2, SEQ ID NO:5, SEQ ID NO:8, SEQ ID NO:11, or SEQ ID NO:15; wherein the polypeptide has dehydrogenase activity.
- 14. (Currently amended) The isolated polypeptide of claim 13 comprising the amino acid sequence of SEQ ID NO:2, SEQ ID NO:5, SEQ ID NO:5, SEQ ID NO:11.
- 15. (Previously presented) The polypeptide of claim 13, further comprising heterologous amino acid sequences.
 - 16. (Previously presented) An antibody which selectively binds to a polypeptide of claim 13.

- 17. (Previously presented) A method for detecting the presence of a polypeptide of claim 13 in a sample comprising:
- a) contacting the sample with a compound which selectively binds to the polypeptide; and
- b) determining whether the compound binds to the polypeptide in the sample to thereby detect the presence of a polypeptide of claim 13 in the sample.
- 18. (Previously presented) The method of claim 17, wherein the compound which binds to the polypeptide is an antibody.
- 19. (Previously presented) A kit comprising a compound which selectively binds to a polypeptide of claim 13 and instructions for use.

20.-22 Cancelled

- 23. (Previously presented) A method for identifying a compound which binds to a polypeptide of claim 13 comprising:
- a) contacting the polypeptide, or a cell expressing the polypeptide with a test compound; and
 - b) determining whether the polypeptide binds to the test compound.
- 24. (Previously presented) The method of claim 23, wherein the binding of the test compound to the polypeptide is detected by a method selected from the group consisting of:
 - a) detection of binding by direct detection of test compound/polypeptide binding;
 - b) detection of binding using a competition binding assay; and
 - c) detection of binding using an assay for DHDR activity.
- 25. (Previously presented) A method for modulating the activity of a polypeptide of claim 13 comprising contacting the polypeptide or a cell expressing the polypeptide with a compound which binds to the polypeptide in a sufficient concentration to modulate the activity of the polypeptide.
- 26. (Previously presented) A method for identifying a compound which modulates the activity of a polypeptide of claim 13 comprising:
 - a) contacting a polypeptide of claim 13 with a test compound; and
- b) determining the effect of the test compound on the activity of the polypeptide to thereby identify a compound which modulates the activity of the polypeptide.

- 27. (Previously presented) The method of claim 26, wherein said activity is modulation of virus activity.
- 28. (Previously presented) A method for identifying a compound which modulates virus activity comprising:
- a) contacting the polypeptide of claim 13, or a cell expressing the polypeptide with a test compound; and
- b) identifying the compound as a modulator of virus activity by determining the effect of the test compound on the activity of the polypeptide.

29.-34 Cancelled

- 35. (Previously presented) The method of claim 26, wherein said activity is modulation of cellular proliferation.
- 36. (Previously presented) A method for identifying a compound which modulates cellular proliferation comprising:
- a) contacting the polypeptide of claim 13, or a cell expressing the polypeptide with a test compound; and
- b) identifying the compound as a modulator of cellular proliferation by determining the effect of the test compound on the activity of the polypeptide.

37-42 Cancelled

- 43. (New) An isolated polypeptide comprising the amino acid sequence set forth in SEQ ID No:5.
- 44 (New) The polypeptide of claim 43, further comprising heterologous amino acid sequences.
- 45 (New) An isolated polypeptide consisting of the amino acid sequence set forth in SEQ ID No:5.
- 46 (New) An isolated polypeptide comprising the amino acid sequence of the polypeptide expressed from the plasmid deposited with ATCC as Accession Number PTA-1845.

47 (New) An isolated polypeptide comprising an amino acid sequence which is at least 95% identical to the amino acid sequence of SEQ ID NO:5, wherein said polypeptide has a dehydrogenase activity.

48 (New) The polypeptide of claim 47, further comprising heterologous amino acid sequences